



## SEQUENCE LISTING

<110> CRINE, PHILIPPE  
BOILEAU, GUY

<120> COMPOSITION, METHODS AND REAGENTS FOR THE SYNTHESIS OF  
A SOLUBLE FORM OF HUMAN PHEX

<130> 163-35

<140> 09/913,955  
<141> 2001-08-21

<150> PCT/CA00/00201  
<151> 2000-02-24

<150> CA 2,262,056  
<151> 1999-02-24

<160> 6

<170> PatentIn Ver. 2.1

B  
<210> 1  
<211> 749  
<212> PRT  
<213> Homo sapiens

<400> 1

Met Glu Ala Glu Thr Gly Ser Ser Val Glu Thr Gly Lys Lys Ala Asn  
1 5 10 15

Arg Gly Thr Arg Ile Ala Leu Val Val Phe Val Gly Gly Thr Leu Val  
20 25 30

Leu Gly Thr Ile Leu Phe Leu Val Ser Gln Gly Leu Leu Ser Leu Gln  
35 40 45

Ala Lys Gln Glu Tyr Cys Leu Lys Pro Glu Cys Ile Glu Ala Ala Ala  
50 55 60

Ala Ile Leu Ser Lys Val Asn Leu Ser Val Asp Pro Cys Asp Asn Phe  
65 70 75 80

Phe Arg Phe Ala Cys Asp Gly Trp Ile Ser Asn Asn Pro Ile Pro Glu  
85 90 95

Asp Met Pro Ser Tyr Gly Val Tyr Pro Trp Leu Arg His Asn Val Asp  
100 105 110

Leu Lys Leu Lys Glu Leu Leu Glu Lys Ser Ile Ser Arg Arg Arg Asp  
115 120 125

Thr Glu Ala Ile Gln Lys Ala Lys Ile Leu Tyr Ser Ser Cys Met Asn  
130 135 140

Glu Lys Ala Ile Glu Lys Ala Asp Ala Lys Pro Leu Leu His Ile Leu  
145 150 155 160

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Arg His Ser Pro Phe Arg Trp Pro Val Leu Glu Ser Asn Ile Gly Pro  
 165 170 175

Glu Gly Val Trp Ser Glu Arg Lys Phe Ser Leu Leu Gln Thr Leu Ala  
 180 185 190

Thr Phe Arg Gly Gln Tyr Ser Asn Ser Val Phe Ile Arg Leu Tyr Val  
 195 200 205

Ser Pro Asp Asp Lys Ala Ser Asn Glu His Ile Leu Lys Leu Asp Gln  
 210 215 220

Ala Thr Leu Ser Leu Ala Val Arg Glu Asp Tyr Leu Asp Asn Ser Thr  
 225 230 235 240

Glu Ala Lys Ser Tyr Arg Asp Ala Leu Tyr Lys Phe Met Val Asp Thr  
 245 250 255

Ala Val Leu Leu Gly Ala Asn Ser Ser Arg Ala Glu His Asp Met Lys  
 260 265 270

Ser Val Leu Arg Leu Glu Ile Lys Ile Ala Glu Ile Met Ile Pro His  
 275 280 285

Glu Asn Arg Thr Ser Glu Ala Met Tyr Asn Lys Met Asn Ile Ser Glu  
 290 295 300

Leu Ser Ala Met Ile Pro Gln Phe Asp Trp Leu Gly Tyr Ile Lys Lys  
 305 310 315 320

Val Ile Asp Thr Arg Leu Tyr Pro His Leu Lys Asp Ile Ser Pro Ser  
 325 330 335

Glu Asn Val Val Val Arg Val Pro Gln Tyr Phe Lys Asp Leu Phe Arg  
 340 345 350

Ile Leu Gly Ser Glu Arg Lys Lys Thr Ile Ala Asn Tyr Leu Val Trp  
 355 360 365

Arg Met Val Tyr Ser Arg Ile Pro Asn Leu Ser Arg Arg Phe Gln Tyr  
 370 375 380

Arg Trp Leu Glu Phe Ser Arg Val Ile Gln Gly Thr Thr Thr Leu Leu  
 385 390 395 400

Pro Gln Trp Asp Lys Cys Val Asn Phe Ile Glu Ser Ala Leu Pro Tyr  
 405 410 415

Val Val Gly Lys Met Phe Val Asp Val Tyr Phe Gln Glu Asp Lys Lys  
 420 425 430 435

Glu Met Met Glu Glu Leu Val Glu Gly Val Arg Trp Ala Phe Ile Asp  
 435 440 445

Met Leu Glu Lys Glu Asn Glu Trp Met Asp Ala Gly Thr Lys Arg Lys  
 450 455 460

B  
Cont

Ala Lys Glu Lys Ala Arg Ala Val Leu Ala Lys Val Gly Tyr Pro Glu  
 465 470 475 480  
 Phe Ile Met Asn Asp Thr His Val Asn Glu Asp Leu Lys Ala Ile Lys  
 485 490 495  
 Phe Ser Glu Ala Asp Tyr Phe Gly Asn Val Leu Gln Thr Arg Lys Tyr  
 500 505 510  
 Leu Ala Gln Ser Asp Phe Phe Trp Leu Arg Lys Ala Val Pro Lys Thr  
 515 520 525  
 Glu Trp Phe Thr Asn Pro Thr Thr Val Asn Ala Phe Tyr Ser Ala Ser  
 530 535 540  
 Thr Asn Gln Ile Arg Phe Pro Ala Gly Glu Leu Gln Lys Pro Phe Phe  
 545 550 555 560  
 Trp Gly Thr Glu Tyr Pro Arg Ser Leu Ser Tyr Gly Ala Ile Gly Val  
 565 570 575  
 Ile Val Gly His Glu Phe Thr His Gly Phe Asp Asn Asn Gly Arg Lys  
 580 585 590  
 Tyr Asp Lys Asn Gly Asn Leu Asp Pro Trp Trp Ser Thr Glu Ser Glu  
 595 600 605  
 Glu Lys Phe Lys Glu Lys Thr Lys Cys Met Ile Asn Gln Tyr Ser Asn  
 610 615 620  
 Tyr Tyr Trp Lys Lys Ala Gly Leu Asn Val Lys Gly Lys Arg Thr Leu  
 625 630 635 640  
 Gly Glu Asn Ile Ala Asp Asn Gly Leu Arg Glu Ala Phe Arg Ala  
 645 650 655  
 Tyr Arg Lys Trp Ile Asn Asp Arg Arg Gln Gly Leu Glu Glu Pro Leu  
 660 665 670  
 Leu Pro Gly Ile Thr Phe Thr Asn Asn Gln Leu Phe Phe Leu Ser Tyr  
 675 680 685  
 Ala His Val Arg Cys Asn Ser Tyr Arg Pro Glu Ala Ala Arg Glu Gln  
 690 695 700  
 Val Gln Ile Gly Ala His Ser Pro Pro Gln Phe Arg Val Asn Gly Ala  
 705 710 715 720  
 Ile Ser Asn Ser Glu Glu Phe Gln Lys Ala Phe Asn Cys Pro Pro Asn  
 725 730 735  
 Ser Thr Met Asn Arg Gly Met Asp Ser Cys Arg Leu Trp  
 740 745

<210> 2  
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<212> PRT  
<213> Homo sapiens

<400> 2  
Val Gly Gly Thr Leu Val Leu Gly Thr Ile Leu Phe Leu Val Ser Gln  
1 5 10 15

Gly Leu Leu Ser  
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<210> 3  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Human PHEX  
derivative

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1 5 10 15

Gly Leu Leu Ser  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Human PHEX  
derivative

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1 5 10 15

<210> 5  
<211> 52  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

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ctgacagtga tcgctcaaca aacaaccagt caaggtctct taagtctcca ag 52

<210> 6  
<211> 51  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: Primer

&lt;400&gt; 6

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